Andy K. Barrows

Frontend Lead with a DevOps / security background. B.S. in Informatics and Cybersecurity from U. of Washington.

https://github.com/rckeller
https://barrfitz.com
andy@barrfitz.com

Professional Experience

Certara
Engineering Lead, Certara A.I.　　　　　　　　2023
- Lead engineer for Certara A.I, a SaaS that generates medical research by leveraging LLMs (GPTs) trained against scientific literature & clinical data.

Technologies: Typescript, React, Python, SciKit. Llama, Falcon, NeoXT

Shopify
Senior Software Engineer　　　　　　　　2021 – 2023
- Frontend lead for Linkpop, a new link-in-bio tool that uses stateless server-side components and Hydrogen to render pages near-instantaneously.

Technologies: Typescript, React, GraphQL, Webpack, Cypress, Buildkite

The Washington Post
Frontend Lead　　　　　　　　2020 – 2021
- Set and execute the technical direction of frontend work related to customer retention, special offers, content relevance, and personalization.

Technologies: Typescript, React, Redux, Webpack, Cypress, Jenkins

Clevertech
Senior Software Engineer, Fullstack　　　　　　　　2019 – 2020
- Developed award-winning cross-platform SaaS products for startups and Fortune 500 clients in the transport logistics industry.

Technologies: Node, React, Redux, Webpack, Cypress, Docker, CircleCI

Crossover Health
Software Engineer II, Frontend　　　　　　　　2018 – 2019
- Lead the frontend engineering team, developed core architecture, build infrastructure and UI libraries for multiple new cross-platform applications.

Technologies: TypeScript, React, Webpack, Cypress, Docker, CircleCI

Capital One
Software Engineering Intern　　　　　　　　2018
- Led a project team of 6 developers – providing 1:1 mentorship, system designs, and defining and implementing application architecture.

Technologies: Go, Node, React, Webpack, Rollup, MongoDB, AWS

T-Mobile
Security Engineering Co-Op　　　　　　　　2017 – 2018
- Developed full stack applications and data ingestion systems for cyber threat intelligence, automating the collection of emerging threat data.

Technologies: Puppet, Ansible, Ruby, Bash, JavaScript, Node, React

University of Washington
Software Engineer, Web　　　　　　　　2017 – 2018
- Developed a bespoke IT project management web app used to select and grant $12 million in funding to over 100 campus projects annually.

Technologies: Node, React, Redux, Webpack, MySQL, MongoDB, AWS

Education

University of Washington
Bachelor of Science in Informatics and Cybersecurity
Graduated March 2019; 3.7 GPA

Code Fellows, Seattle
Advanced Web Development
Completed January 2017

Skills

Front-End Development
JavaScript ES12, TypeScript, React, Redux, MobX, GraphQL, Liquid, D3.js

Back-End Development
Golang, Ruby, NodeJS, Express, Koa, Feathers, Restify, Adonis, Micro

Build Infrastructure / Tooling
Babel, Webpack, Rollup, Vite, Turbo

Testing & Quality Assurance
Jest, Cypress, Playwright, Mocha, Chai

DevOps & CI/CD
Puppet, Ansible, Jenkins, Travis, CircleCI, Buildkite, Docker, AWS ECS

Database Administration
MySQL Server, Postgres, MongoDB, Firestore, Redis, GraphQL & Apollo

Penetration Testing
Burp, Nmap, Metasploit, Aircrack-ng

Open Source
Most recent packages:

@shopify/cypress-graphql
Test GraphQL endpoints w/ Cypress.

circleci-runtime-optimizer
CI/CD optimization using git scm, docker caching, and more.

cypress-react-unit-test
Library for writing e2e and unit tests using the same integration test suite.